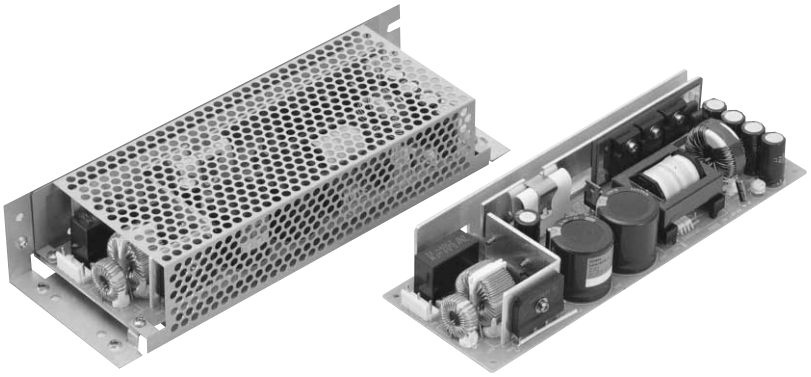
LDA SERIES POWER SUPPLY

LDA150W



- High quality and cost effectiveness
- Small and compact PCB construction
- Autoranging voltage (AC85~132V/AC170~264V)
- UL, recognized, TÜV approved,CSA certified
- Built-in inrush current, overcurrent and overvoltage protection circuits
- Two-year warranty

■ ORDERING INFORMATION

LDA150 □ -5- □

- Optional:EX. With chassis and cover:SN, With voltage adjuster:Y
- Output voltage
- (W:Autoranging input, B: Only for 200V input)
- Output wattage
- Series name

SPECIFICATIONS

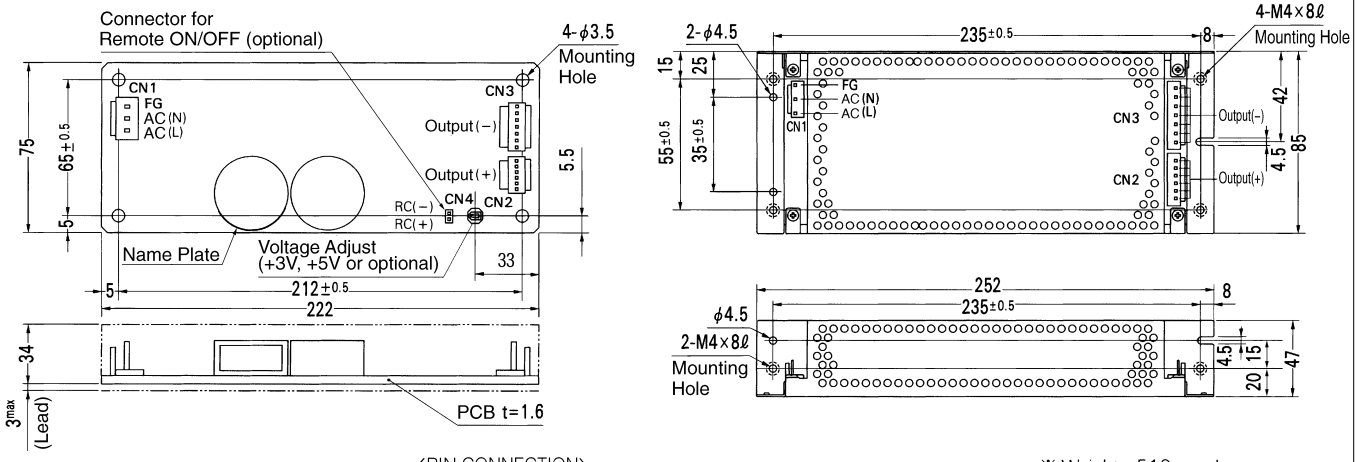
	MODEL	LDA150W-3 LDA150B-3	LDA150W-5 LDA150B-5	LDA150W-9 LDA150B-9	LDA150W-12 LDA150B-12	LDA150W-15 LDA150B-15	LDA150W-18 LDA150B-18	LDA150W-24 LDA150B-24	LDA150W-24-H	LDA150W-30 LDA150B-30	LDA150W-48 LDA150B-48
INPUT	VOLTAGE/CURRENT	AC85~132V/170~264V 1φ / 3.6A typ (ACIN 100V,Io=100%) 2.0A typ (ACIN 200V,Io=100%)									
	FREQUENCY	47~440Hz									
	EFFICIENCY	75%typ	79%typ	79%typ	82%typ	83%typ	84%typ	85%typ	85%typ	85%typ	82%typ
	INRUSH CURRENT	30A typ (ACIN 100/200V, Io=100%) (At cold start)									
	LEAKAGE CURRENT	0.75mA max (60Hz, according to UL, CSA, VDE and DENTORI)									
OUTPUT	VOLTAGE [V]	3	5	9	12	15	18	24	24	30	48
	CURRENT [A]※1	30	30	17	12.5	10	8.5	6.3	6.3 (10)	5	3
	LINE REGULATION [mV]	20 max	20 max	36 max	48 max	60 max	72 max	96 max	96 max	120 max	192 max
	LOAD REGULATION [mV]	40 max	40 max	100 max	100 max	120 max	120 max	150 max	150 max	180 max	240 max
	RIPPLE [mVp-p] 0~+50°C	80 max	80 max	120 max	120 max	120 max	120 max	120 max	220 max	120 max	150 max
	RIPPLE [mVp-p] −10~0°C	140 max	140 max	160 max	160 max	160 max	160 max	160 max	260 max	160 max	200 max
	RIPPLE NOISE [mVp-p] 0~+50°C	120 max	120 max	150 max	150 max	150 max	150 max	150 max	250 max	150 max	400 max
	RIPPLE NOISE [mVp-p] −10~0°C	160 max	160 max	180 max	180 max	180 max	180 max	180 max	280 max	180 max	600 max
	TEMPERATURE COEFFICIENT [mV]	60 max	60 max	120 max	150 max	180 max	200 max	290 max	290 max	360 max	560 max
	DRIFT [mV]※2	20 max	20 max	36 max	48 max	60 max	72 max	96 max	96 max	120 max	192 max
	START-UP TIME [mS]	200max (ACIN 100V, Io =100%)									
	HOLD-UP TIME [mS]	10typ (ACIN 85V, Io=100%), 20 typ (ACIN 100V, Io =100%)									
	OUTPUT VOLTAGE ADJUSTMENT RANGE [V]※3	2.85~3.6	4.5~5.5	Fixed							
PROTECTION CIRCUITS	OVERCURRENT PROTECTION	Works over 105% of rating (−H:peak) and recovers automatically									
	OVERVOLTAGE PROTECTION	4.00~5.25V	Works at 115% ~140% of rating								
ISOLATION	INPUT-OUTPUT	AC3,000V, 1minute, Cutoff current= 10mA, DC500V, 50MΩ min. (At Room Temperature)									
	INPUT-FG	AC2,000V, 1minute, Cutoff current= 10mA, DC500V, 50MΩ min. (At Room Temperature)									
	OUTPUT-FG	AC 500V, 1minute, Cutoff current=100mA, DC500V, 50MΩ min. (At Room Temperature)									
ENVIRONMENT	OPERATING TEMP. AND HUMID.	−10~+60℃, 20~90%RH (Non condensing) (Refer to DERATING CURVE)									
	STORAGE TEMP. AND HUMID.	−20~+75℃, 20~90%RH (Non condensing)									
	VIBRATION	10~55Hz, 2G, 3 minutes period, 60 minutes each along X, Y and Z axis									
	IMPACT	20G, 11mS, once each X, Y and Z axis									
SAFETY AND NOISE REGULATIONS	SAFETY	Recognized UL1950, approved EN60950, VDE0160, certified CSA C22.2 No.234,complies with DENTORI and IEC950									
	CONDUCTED NOISE	Complies with FCC−B, Vfg243/91 and VCCI 2									

※1 Peak load can be operated when the total wattage is within rated wattage(24V:151.2W)and less than 10 seconds(within the rated current for the average current).
※2 The drift is a change at 25℃ of ambient temperature and 30 minutes~8 hours after the input voltage applied at rated input/output.
※3 "Y" which can be adjusted the output is available as optional.
※ Avoid prolonged use under over-load.
※ Parallel operation with other model is not possible.
※ When units are operated with chassis/case cover, derating is required.

MODEL	LDA150W-3 LDA150B-3	LDA150W-5 LDA150B-5	LDA150W-9 LDA150B-9	LDA150W-12 LDA150B-12	LDA150W-15 LDA150B-15	LDA150W-18 LDA150B-18	LDA150W-24 LDA150B-24	LDA150W-24-H	LDA150W-30 LDA150B-30	LDA150W-48 LDA150B-48
MAX OUTPUT WATTAGE	90W	150W	153W	150W	150W	153W	151.2W	151.2W	150W	144W
DC OUTPUT	3V30A	5V30A	9V17A	12V12.5A	15V10A	18V8.5A	24V6.3A	24V6.3(10)A	30V5A	48V3A

( ) Peak

■EXTERNAL VIEW



I/O Connector		Mating Connector (Terminal)
CN1	B3P5-VH	VHR-5N (SVH-21T-1.1 or SVH-21T-P1.1)
CN2	B6P-VH	VHR-6N (SVH-21T-1.1 or SVH-21T-P1.1)
CN3	B7P-VH	VHR-7N (SVH-21T-1.1 or SVH-21T-P1.1)
CN4	B2B-XH-A	XHP-2 (BXH-001T-P0.6 or SXH-001T-P0.6)

(Mfr: J.S.T.)

〈PIN CONNECTION〉

	Pin No.	Input
CN1	1	AC(L)
	2	
	3	AC(N)
	4	
	5	FG

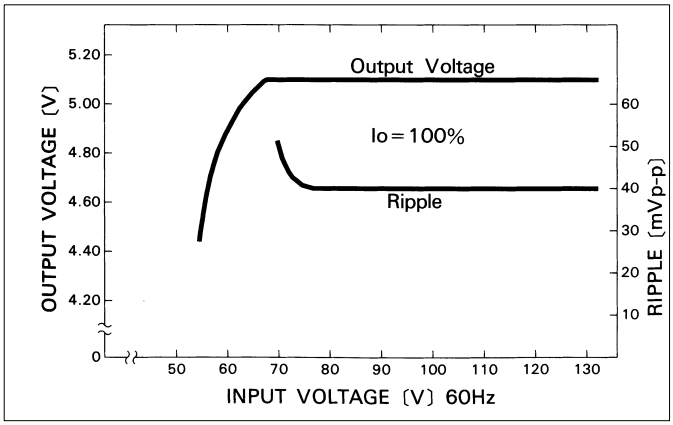
	Pin No.	Output
CN2	1~6	+V
CN3	1~7	−V

	Pin No.	Remote ON/OFF
CN4	1	RC(+)
	2	RC(−)

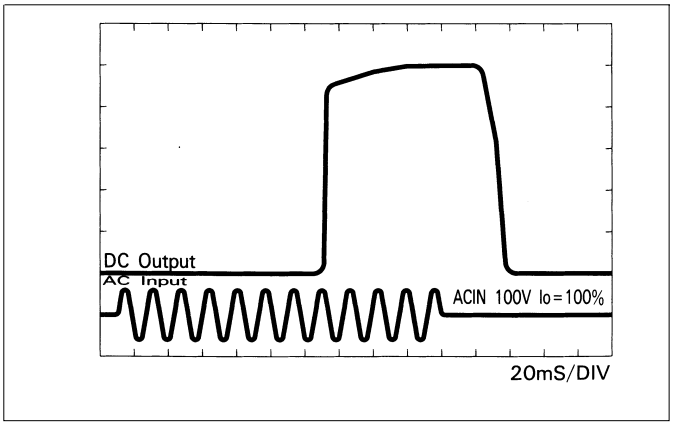
※Keep drawing current per pin below 5A for CN2, CN3.

※ Weight : 510g or less
(Without chassis and cover)
※ Tolerance : ±1
※ Dimensions in mm.
※ PCB Material : Glass composite (CEM3)
※ Chassis and cover is optional.
※ Chassis and cover is not available to remote ON/OFF unit.

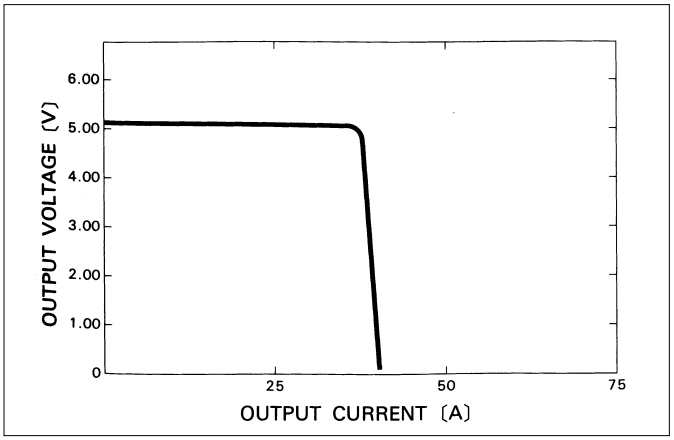
■STATIC CHARACTERISTICS (LDA150W-5)



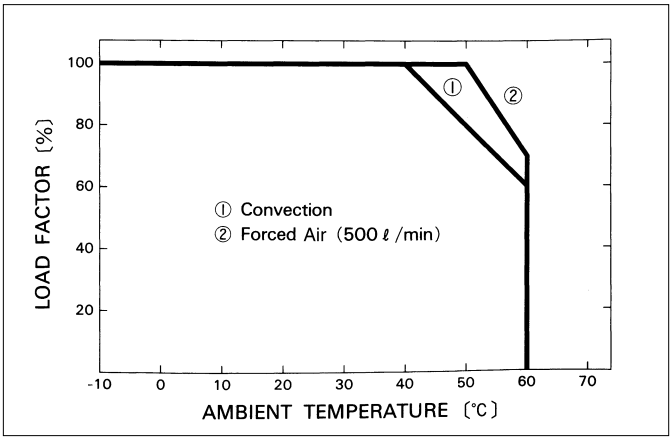
■RISE TIME & FALL TIME (LDA150W-5)



■OVERCURRENT CHARACTERISTICS (LDA150W-5)



■DERATING CURVE



LDA